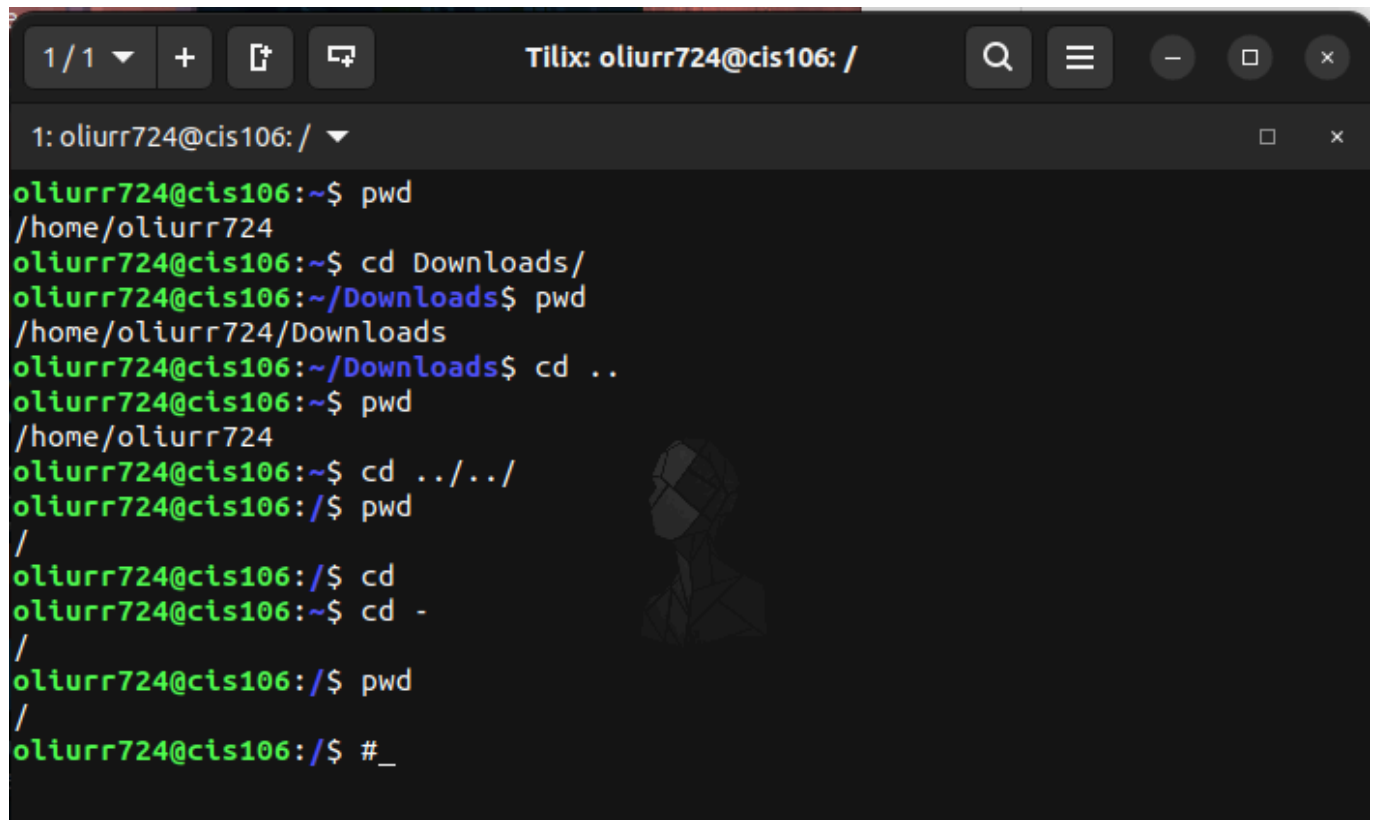


Week Report 4

Practice 1

A screenshot of a terminal window titled "Tilix: oliurr724@cis106: /". The terminal shows a series of commands and their outputs. The user starts in the home directory, navigates to the Downloads directory, then back to the home directory, then to the root directory, and finally to a directory named "-". A faint, stylized image of a person's head is visible in the background of the terminal.

```
1 / 1 ▾ + [ ] [ ]
Tilix: oliurr724@cis106: /
1: oliurr724@cis106: / ▾
oliurr724@cis106:~$ pwd
/home/oliurr724
oliurr724@cis106:~$ cd Downloads/
oliurr724@cis106:~/Downloads$ pwd
/home/oliurr724/Downloads
oliurr724@cis106:~/Downloads$ cd ..
oliurr724@cis106:~$ pwd
/home/oliurr724
oliurr724@cis106:~$ cd ../../
oliurr724@cis106:/$ pwd
/
oliurr724@cis106:/$ cd
oliurr724@cis106:~$ cd -
/
oliurr724@cis106:/$ pwd
/
oliurr724@cis106:/$ #_
```

Practice 2

File Edit View Search Terminal Help

```
liurr724@cis106:~$ wget https://cis106.com/assets/practicels.tar.xz
--2024-03-17 20:34:35-- https://cis106.com/assets/practicels.tar.xz
Resolving cis106.com (cis106.com)... 185.199.108.153
Connecting to cis106.com (cis106.com)|185.199.108.153|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2229212 (2.1M) [application/x-xz]
Saving to: 'practicels.tar.xz'

practicels.tar.xz 100%[=====] 2.12M --.-KB/s in 0.08s

2024-03-17 20:34:36 (26.2 MB/s) - 'practicels.tar.xz' saved [2229212/2229212]

liurr724@cis106:~$ tar xvf practicels.tar.xz
liurr724@cis106:~$ cd practicels/
liurr724@cis106:~/practicels$ ls
book.txt      history-debian.pdf  movie.mp4  song.mp3      tux-penguin.gif
countries.xml homework.docx       people.csv  tux-nobg.png
liurr724@cis106:~/practicels$ ls -la
total 2932
-rw-rw-r-- 1 oliurr724 oliurr724 1043 Feb 27 2022 book.txt
-rw-rw-r-- 1 oliurr724 oliurr724 23972 Feb 27 2022 countries.xml
-rw-rw-r-- 1 oliurr724 oliurr724 163057 Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 oliurr724 oliurr724 111303 Feb 22 2022 homework.docx
-rw-rw-r-- 1 oliurr724 oliurr724 1570024 Feb 27 2022 movie.mp4
-rw-rw-r-- 1 oliurr724 oliurr724 284042 Feb 27 2022 people.csv
-rw-rw-r-- 1 oliurr724 oliurr724 764176 Feb 27 2022 song.mp3
-rw-rw-r-- 1 oliurr724 oliurr724 21314 Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 oliurr724 oliurr724 44299 Jan 31 2020 tux-penguin.gif
liurr724@cis106:~/practicels$ ls -lh
total 2.9M
-rw-rw-r-- 1 oliurr724 oliurr724 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 oliurr724 oliurr724 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 oliurr724 oliurr724 108K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 oliurr724 oliurr724 189K Feb 22 2022 homework.docx
-rw-rw-r-- 1 oliurr724 oliurr724 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 oliurr724 oliurr724 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 oliurr724 oliurr724 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 oliurr724 oliurr724 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 oliurr724 oliurr724 44K Jan 31 2020 tux-penguin.gif
liurr724@cis106:~/practicels$ ls -lht
total 2.9M
-rw-rw-r-- 1 oliurr724 oliurr724 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 oliurr724 oliurr724 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 oliurr724 oliurr724 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 oliurr724 oliurr724 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 oliurr724 oliurr724 169K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 oliurr724 oliurr724 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 oliurr724 oliurr724 1.1K Feb 27 2022 book.txt
-rw-rw-r-- 1 oliurr724 oliurr724 189K Feb 22 2022 homework.docx
-rw-rw-r-- 1 oliurr724 oliurr724 44K Jan 31 2020 tux-penguin.gif
liurr724@cis106:~/practicels$ ls -lhGS
total 2.9M
-rw-rw-r-- 1 1.5M Feb 27 2022 movie.mp4
-rw-rw-r-- 1 747K Feb 27 2022 song.mp3
-rw-rw-r-- 1 278K Feb 27 2022 people.csv
-rw-rw-r-- 1 169K Feb 27 2022 history-debian.pdf
-rw-rw-r-- 1 189K Feb 22 2022 homework.docx
-rw-rw-r-- 1 44K Jan 31 2020 tux-penguin.gif
-rw-rw-r-- 1 24K Feb 27 2022 countries.xml
-rw-rw-r-- 1 21K Feb 27 2022 tux-nobg.png
-rw-rw-r-- 1 1.1K Feb 27 2022 book.txt
liurr724@cis106:~/practicels$ ls -nr
tux-penguin.gif, tux-nobg.png, song.mp3, people.csv, movie.mp4, homework.docx,
history-debian.pdf, countries.xml, book.txt
liurr724@cis106:~/practicels$ ls -lX
people.csv
homework.docx
tux-penguin.gif
song.mp3
movie.mp4
history-debian.pdf
tux-nobg.png
book.txt
countries.xml
liurr724@cis106:~/practicels$
```

Challenge Practice

```

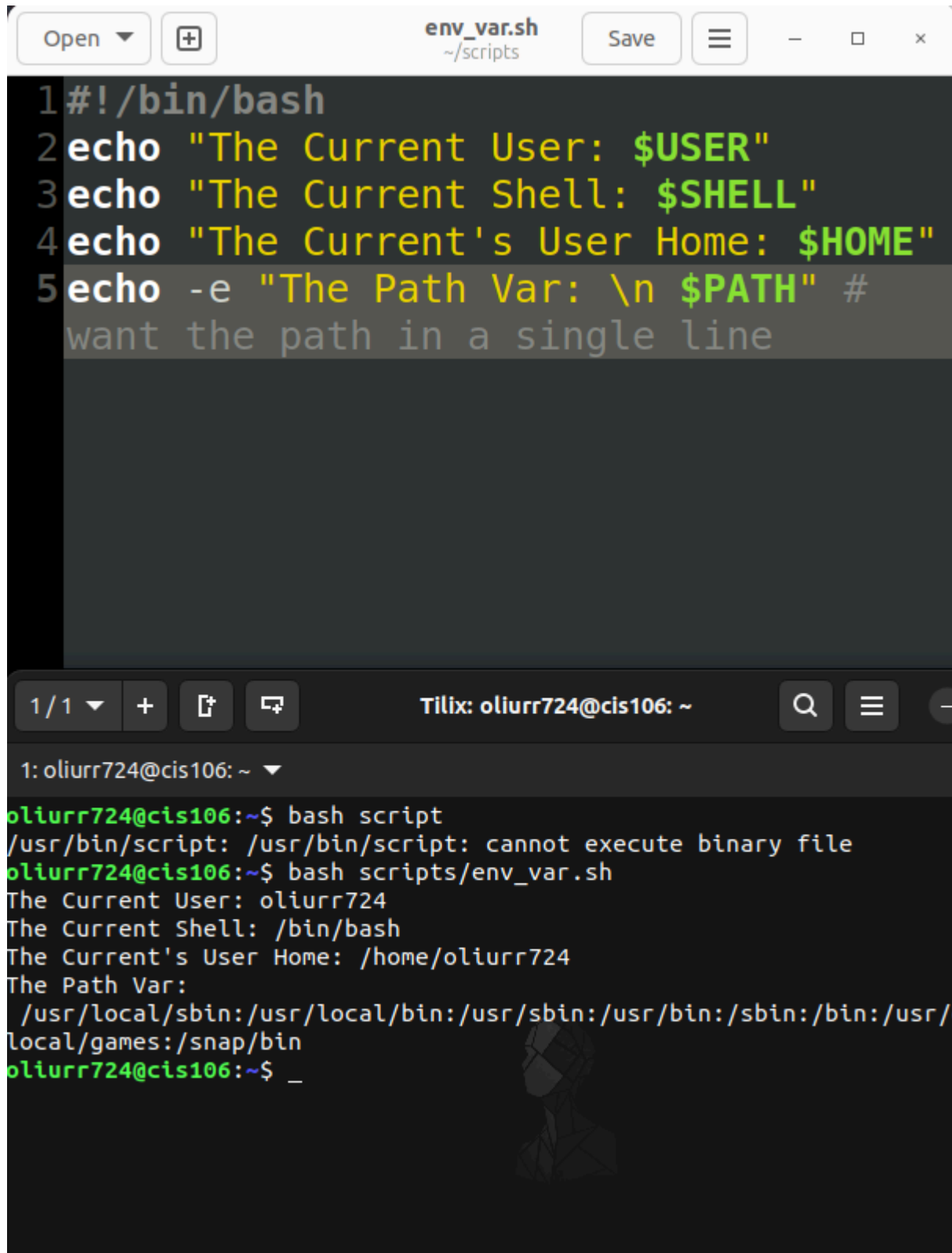
1/1 + [search] [refresh] [close]
Tilix: oliurr724@cis106: ~

oliurr724@cis106:~$ cd /
oliurr724@cis106:/$ cd usr/share/themes/
oliurr724@cis106:/usr/share/themes$ cd ../../
oliurr724@cis106:/usr$ ls -A ~
.bash_history  .dotnet      .pk1          Templates
.bash_logout  Downloads    practicels     .thunderbird
.bashrc        .gitconfig   practicels.tar.xz  Videos
.cache         .gnupg       .profile       .vscode
cis106         .lessht      Public         walpaper.jpg
.config        .local       scripts        .Xauthority
Desktop        .mozilla     snap          .xsession-errors
.dmrc          Music        .ssh          .xsession-errors.old
Documents      Pictures     .sudo_as_admin_successful

oliurr724@cis106:/usr$ cd; ls -tX cis106/
.cheatsheet 'final project' labs notes weekreports
oliurr724@cis106:~$ ls -lh ~
total 2.6M
drwxrwxr-x 8 oliurr724 oliurr724 4.0K Feb 11 04:21 cis106
drwxr-xr-x 2 oliurr724 oliurr724 4.0K Mar 14 15:26 Desktop
drwxr-xr-x 2 oliurr724 oliurr724 4.0K Feb 11 04:47 Documents
drwxr-xr-x 2 oliurr724 oliurr724 4.0K Feb 26 01:08 Downloads
drwxr-xr-x 2 oliurr724 oliurr724 4.0K Feb 10 09:00 Music
drwxr-xr-x 2 oliurr724 oliurr724 4.0K Feb 24 18:52 Pictures
drwxrwxr-x 2 oliurr724 oliurr724 4.0K Feb 27 2022 Practicels
-rw-rw-r-- 1 oliurr724 oliurr724 2.2M Mar 14 17:02 practicels.tar.xz
drwxr-xr-x 2 oliurr724 oliurr724 4.0K Feb 10 09:00 Public
drwxrwxr-x 2 oliurr724 oliurr724 4.0K Feb 26 01:33 scripts
drwx----- 5 oliurr724 oliurr724 4.0K Feb 29 04:34 snap
drwxr-xr-x 2 oliurr724 oliurr724 4.0K Feb 10 09:00 Templates
drwxr-xr-x 2 oliurr724 oliurr724 4.0K Feb 10 09:00 Videos
-rw-rw-r-- 1 oliurr724 oliurr724 368K Feb 25 17:06 walpaper.jpg
oliurr724@cis106:~$ ls -lgG --full-time ~
total 2596
drwxrwxr-x 8      4096 2024-02-11 04:21:21.964476585 +0000 cis106
drwxr-xr-x 2      4096 2024-03-14 15:26:48.894534160 +0000 Desktop
drwxr-xr-x 2      4096 2024-02-11 04:47:34.858895142 +0000 Documents
drwxr-xr-x 2      4096 2024-02-26 01:08:02.558381873 +0000 Downloads
drwxr-xr-x 2      4096 2024-02-10 09:00:03.342077205 +0000 Music
drwxr-xr-x 2      4096 2024-02-24 18:52:19.580269269 +0000 Pictures
drwxrwxr-x 2      4096 2022-02-27 18:46:18.000000000 +0000 practicels
-rw-rw-r-- 1 2229212 2024-03-14 17:02:07.000000000 +0000 practicels.tar.xz
drwxr-xr-x 2      4096 2024-02-10 09:00:03.342077205 +0000 Public
drwxrwxr-x 2      4096 2024-02-26 01:33:28.636984477 +0000 scripts

```

Practice 3



The image shows a code editor window at the top with the file name `env_var.sh` located at `~/scripts`. The script contains five lines of code: a shebang, and four `echo` commands that display the values of `$USER`, `$SHELL`, `$HOME`, and `$PATH`. The `$PATH` command is split across two lines in the script. Below the editor is a terminal window titled `Tilix: oliurr724@cis106: ~`. The terminal shows the user running `bash script`, which fails with an error. Then, the user runs `bash scripts/env_var.sh`, which successfully executes the script, displaying the current user, shell, home directory, and path.

```
1#!/bin/bash
2echo "The Current User: $USER"
3echo "The Current Shell: $SHELL"
4echo "The Current's User Home: $HOME"
5echo -e "The Path Var: \n $PATH" #
  want the path in a single line

oliurr724@cis106:~$ bash script
/usr/bin/script: /usr/bin/script: cannot execute binary file
oliurr724@cis106:~$ bash scripts/env_var.sh
The Current User: oliurr724
The Current Shell: /bin/bash
The Current's User Home: /home/oliurr724
The Path Var:
 /usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/g
local/games:/snap/bin
oliurr724@cis106:~$ _
```

Practice 4

```
1#!/bin/bash
2name="bob"
3age=45
4email="bob@email.com"
5phone="986-852-1231"
6echo -e "\tUser's Information\n\
7\t-----\n\
8\tName:\t$name\n\
9\tAge:\t$age\n\
10\tEmail:\t$email\n\
11\tPhone:\t$phone\n"
```

1/1 + [] [] Tilix: oliurr724@cis106: ~ 🔍 ☰ -

1: oliurr724@cis106: ~ ▾

```
oliurr724@cis106:~$ bash scripts/usr_var.sh
User's Information
-----
Name:    bob
Age:     45
Email:   bob@email.com
Phone:   986-852-1231

oliurr724@cis106:~$ _
```

